

VARIABLE FILTER-BASED OPTICAL SPECTROMETER

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AN optical spectrometer uses a tapered Fabry-Pérot type linear variable optical filter in conjunction with an optical detector array. The filter can be a long-pass, short-pass, or narrow bandpass filter. The stability of the variable optical filter allows high resolution, depending on the number and spacing of the detectors used. In a further embodiment, signal-processing techniques are used to enhance the resolution of the spectrometer beyond the measured response.

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